GOODWE

Maximising energy back-up for high-power PV rooftops

Optimised energy autonomy _____ Smart and efficient operations

Modern and compact design 😽 Highest safety standards

The trend of increasing PV module yield is influencing overall PV system requirements. At the forefront of development, GoodWe's ET inverters efficiently meet the needs of powerful solar rooftops to facilitate energy back-up, peak shaving and load management for optimised autonomy and reduced energy cost. The ET series can be combined with a range of battery capacities and brands, including the GoodWe Lynx Home F.

Peak shaving

UPS level switching <10ms



Powerful back-up overload



Technical Data	GW15K-ET	GW20K-ET	GW25K-ET	GW29.9K-ET	
Battery Input Data			-		
Battery Type	Li-lon				
Nominal Battery Voltage (V) Battery voltage range (V)	<u> </u>				
Start-up Voltage (V)	180				
Number of Battery Input	1	1	2	2	
Max. Continuous Charging Current (A)	50	50	50 × 2	50 × 2	
Max. Continuous Discharging Current (A) Max. Charging Power (W)	<u> </u>	<u>50</u>	50 × 2 12500 × 2	50 × 2 15000 × 2	
Max. Discharging Power (W)	15000	20000	12500 × 2	15000 × 2	
PV String Input Data					
Max. Input Power (W) ^{*1}	22500	30000	37500	45000	
Max. Input Voltage (V)*2	22300		00	40000	
MPPT Operating Voltage Range (V)	200 ~ 850				
Start-up Voltage (V)	<u> </u>				
Nominal Input Voltage (V) Max. Input Current per MPPT (A)	30				
Max. Short Circuit Current per MPPT (A)	38				
Number of MPP Trackers	2	2	3	3	
Number of Strings per MPPT	2/2	2/2	2/2/2	2/2/2	
AC Output Data (On-grid)					
Nominal Output Power (W)	15000	20000	25000	29900	
Nominal Apparent Power Output to Utility Grid (VA)	15000	20000	25000	29900	
Nax. Apparent Power Output to Utility Grid (VA) Nax. Apparent Power from Utility Grid (VA)	16500 22500	22000 30000	27500 33000	<u> </u>	
Vax. Apparent Power from Otility Grid (VA)	22000		3L / N / PE	33000	
Nominal AC Grid Frequency (Hz)		50	/ 60		
Aax. AC Current Output to Utility Grid (A) ^{*6}	25.0	33.3	41.7	49.8	
Max. AC Current From Utility Grid (A) Power Factor	34.0	45.0	50.0 B leading to 0.8 lagging)	50.0	
Max. Total Harmonic Distortion			3%		
AC Output Data (Back-up)					
Back-up Nominal Apparent Power (VA)	15000	20000	25000	29900	
Max. Output Apparent Power (VA)		20000 (24000@60s, 32000@3s)	25000 25000 (30000@60s)	29900 30000 (36000@60s)	
Max. Output Apparent Power with Grid (VA) ⁻³	15000	20000	25000	29900	
Max. Output Current (A)	22.7 (27.3@60s, 36.4@3s)	30.3 (36.4@60s, 48.5@3s)	37.9 (45.5@60s)	45.5 (54.5@60s)	
Nominal Output Voltage (V)	380 / 400				
Nominal Output Fregency (Hz) Output THDv (@Linear Load)	50 / 60 <3%				
Efficiency					
-		00	00/		
Max. Efficiency European Efficiency	<u>98.0%</u> 97.5%				
Max. Battery to AC Efficiency	97.5%				
IPPT Efficiency			9%		
Protection					
PV String Current Monitoring		Inteo	rated		
V Insulation Resistance Detection	Integrated				
Residual Current Monitoring	Integrated				
PV Reverse Polarity Protection Battery Reverse Polarity Protection	Integrated Integrated				
Anti-islanding Protection	Integrated				
AC Overcurrent Protection	Integrated				
AC Short Circuit Protection	Integrated				
AC Overvoltage Protection DC Switch	Integrated Integrated				
DC Switch DC Surge Protection	Type II				
AC Surge Protection	Туре III				
AFCI	Optional				
Remote Shutdown		Integ	rated		
General Data					
Operating Temperature Range (°C)			- +60		
Relative Humidity Max. Operating Altitude (m)		<u> </u>			
Cooling Method			n Cooling		
Jser Interface		LED, WL	AN + APP		
Communication with BMS		RS485	/ CAN		
Communication with Meter			485		
Communication with Portal Weight (kg)	48	48	<u>/ 4G</u> 54	54	
Dimension (W \times H \times D mm)			60 × 220		
Noise Emission (dB)	<45	<45	<45	<60	
Topology			solated		
Self-consumption at Night (W) ⁻⁵			15 66		
Mounting Method			ounted		

1: Max. Input Power, not continuous for 1.5 normal power.
*2: For 1000V system, Maximum operating voltage is 950V.
*3: According to the local grid regulation.
*4: Can be reached only if PV and battery power is enough.

*5: No Back-up Output.

*6: For 400V grid, the Max. AC Current Output to Utility Grid is 23.9A for GW15K-ET, 31.9A for GW20K-ET, 39.9A for GW25K-ET, 43.3A for GW29.9K-ET. *: Please visit GoodWe website for the latest certificates.

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